

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Please cancel claims 1-8.

9. (new) A co-fired, multi-layer laminate ceramic structure comprising:
a plurality of stacked co-fired layers of a predetermined type of ceramic material including metallization in predetermined patterns on and through said layers;

a plurality of exposed electrical conductors including leads located at predetermined locations on said plurality of stacked layers;

said conductors being comprised of a metal paste including one or more additives to promote adhesion to said layers of ceramic material;

a bonding metal layer located on top of said exposed electrical conductors at the locations of said leads and being of said same metal as said conductors, however devoid of said one or more additives so as to enhance bondability of the leads thereon; and

wherein the leads are bonded to said bonding metal layer at said predetermined locations.

10. (new) A co-fired, multi-layer laminate ceramic structure according to claim 1 wherein:

the bonding metal layer to said conductors is located only at said predetermined locations of said leads.

11. (new) A co-fired. multi-layer laminate ceramic structure according to claim 1 wherein:

said conductors are comprised of a gold paste including additives selected from a group of materials including copper, bismuth and glass;

said bonding metal layer is comprised of a pure gold paste devoid of said additives.

12. (new) A co-fired multi-layer laminate ceramic structure according to claim 1, wherein one or more of said plurality of layers of co-fired ceramic material include respective cavities;

at least one of said conductors being located on at least one of said stacked layers of co-fired ceramic material below a top layer of said stacked layers of co-fired ceramic material;

said predetermined ones of said conductors being accessible through said cavities for the bonding of said leads to said bonding metal layer applied to said conductors.

13. (new) A co-fired multi-layer laminate ceramic structure according to Claim 1 wherein the co-fired ceramic material comprises low temperature co-fired ceramic (LTCC) material.

14. (new) A co-fired multi-layer laminate structure comprising:

a plurality of stacked co-fired layers of a predetermined type of ceramic material including metallization in predetermined patterns on and through said layers;

a plurality of exposed electrical conductors including leads located at predetermined locations on said plurality of stacked layers;

said conductors being comprised of a metal paste including one or more additives to promote adhesion to said layers of ceramic material;

a bonding metal layer located on top of said exposed electrical conductors at the locations of said leads and being of said same metal as said conductors, however devoid of said one or more additives so as to enhance bondability of the leads thereon;

wherein the leads are bonded to said bonding metal layer at said predetermined locations;

said conductors are comprised of a gold paste including additives selected from a group of materials including copper, bismuth and glass; and

said bonding metal layer is comprised of a pure gold paste devoid of said additives.

15. (new) A co-fired multi-layer laminate ceramic structure according to claim 14, wherein the bonding metal layer is applied to the conductors prior to a co-firing of said stacked layers of ceramic material and then co-fired along with said layers of ceramic material or the bonding metal layer is applied to the conductors and post fired after an initial co-firing of said layers of ceramic material.